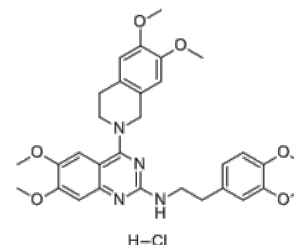


Product Name : CP-100356 hydrochloride
Cat. No. : PC-72608
CAS No. : 142715-48-8
Molecular Formula : C₃₁H₃₇ClN₄O₆
Molecular Weight : 597.109
Target : P-glycoprotein (P-gp)
Solubility : 10 mM in DMSO



Biological Activity

CP-100356 hydrochloride (CP100356) is a specific **P-glycoprotein (P-gp)** inhibitor, suppresses VSV-LASVGP, LCMV, and LASV infection with IC₅₀ of 0.52, 0.54, and 0.062 μM, respectively, without significant cytotoxicity.

CP100356 did not block receptor binding at the cell surface, it inhibited low-pH-dependent membrane fusion mediated by arenavirus glycoproteins.

CP-100356 is an in vivo probe to selectively assess MDR1/BCRP-mediated drug efflux was examined in the rat.

CP-100356 inhibited acetoxymethyl calcein (calcein-AM) uptake (IC₅₀= 0.5 μM) and digoxin transport (IC₅₀=1.2 μM) in human MDR1-transfected MDCKII cells.

References

Takenaga T, et al. *Viruses*. 2021 Sep 3;13(9):1763.

Kalgutkar AS, et al. *J Pharm Sci*. 2009 Dec;98(12):4914-27.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com